

# Shipping World & Shipbuilder

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Ships key	
Blk C	bulk carrier
C	general cargo ship
Cont	container ship
LNG	liquefied natural gas carrier
LP	liquefied petroleum gas carrier
LASH	lighter abroad ship
OBO	ore/bulk/oil carrier
OC	ore carrier
O/OC	ore/oil carrier
Pass	passenger ship
Ref	refrigerated cargo ship
Ro/ro	roll on/roll off ship
Tkr	tanker
VLCC	very large crude tanker
(other specialist types normally stated in full)	
D	diesel
DE	diesel-electric
GT	gas turbine
T	turbine
TE	turbo-electric

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### SUPPLEMENTS & SPECIAL FEATURES

#### Scandinavian area review

- 15 Long term maintenance planning introduced by Norwegian Ship Management
- Effective roll stabilisation, a system developed by SSPA in conjunction with Tenfjord that uses the ship's rudder
- 16 Modernising European shipyards, automation systems supplied by Total Transport Systems
- Power distribution panels. Eggholm Automation create specialist designs for individual applications
- 18 Keeping the oil clean, oil filters from CJC Auramarin Engineering of Finland produce equipment modules
- Investment for modernisation, the Danish yard of Nordsoeverftet A/S is investing \$4 mill in new equipment
- 19 Rauma the independent ship yard, has received orders for two cruise ships

Digital Gyros, Scandinavian Micro Systems have bought the rights to the Digital Repeater series

30 years of Viking

Group success, the problems of Wärtsilä Marine have not affected the other divisions of the Wärtsilä Group

Joint Eureka venture, Ulstein Turbine, Volvo Flymotor and Turbomeca have signed an agreement to develop a new generation of gas turbine

Environmentally friendly waterborne coatings

Local fire protection, water sprays are being developed to supplement fixed CO<sub>2</sub> installations by Lefing Development AB

Scandinavian Cargo Sea AB, have developed a new low cost container carrier

Dedicated purifier for box-oil

New fresh water distiller

Joint venture returns positive results at Aquamaster-Rauma

NAPA Business Unit has been reformed as an independent company called Napa Oy

#### German area review

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- Two catamarans ordered for regional ferry service, from FBM Marine
- 3 "S. Vicente" a truly multi-role vessel, built by K. Damen for operation in Cabo Verde
- 4 Auxiliary ships for the USSR Ministry of Fisheries, built by Danayard A/S
- 6 Variable torque hydrostatic propulsion system, a hydraulic propulsion system for high speed vessels
- 7 Computer based system for improved efficiency, Advanced Control Systems Incorporated have developed a pc based system for monitoring the vessel's performance
- 8 Broad beam work boats, from the Trinity Marine Group
- Slipping clutch, Twin Disc have introduced a

slipping clutch that allows the engine power to be divided between propulsion and auxiliary duties whilst operating at a set speed

Specific fuel consumption reduced and power increased, Deutz have improved the efficiency of their 628 series engines

10 Pilot boat for Dundee, Watercraft International has delivered a new pilot boat to the Dundee pilots

11 Gas turbine for marine applications, Codag Marine have introduced a range of gas turbines specifically for marine use

12 "Osprey Rescue" hovercraft

Diesels approved for lifeboats, two of Perkins latest ranges of diesels have now been approved for use in ships' lifeboats

New transmission system added to Velvet drive range, Borg Warner have introduced the series 500 marine gearbox

Fresh water generator, by Sea-Fresh for smaller vessels

#### UK area review

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- Strengthening the name, British Ropes have changed their name in response to market changes
- United effort on primary control of air pollution, three UK companies combine to tackle the problem of noxious emissions from diesel engines
- 63 Equipment consultancy, project management for the outfitting of research vessels
- Rubber couplings, natural rubber is used for a wide range of flexible couplings suitable for marine applications
- University - shipyard co-operation, academia and industry co-operate to develop a shaft support bracket manufactured from composite materials
- Yard development, one of the important yards in the UK stable has now been established 27 years
- 64 Japanese design built in the UK. A Japanese designed tanker is the basis for the series now being built by Harland and Wolff
- Support for Kvaerner Govan, an award of £3 mill has been made as part of an £11 mill investment programme

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Northern yard, the Astilleros Espanoles facilities in Bilbao have now been reduced to one yard
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Equipment order from Spanish yards, an order worth £11 mill has been signed for the supply of deck machinery to fishing vessels and tankers being built at Spanish yards
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